IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. :	10/636174	Confirmation No. 2104	
Applicant :	Andrew R. Barron et al.		
Filed :	August 7, 2003	TC/A.U. :	1713
Docket No. :	1789-11001	Examiner :	Ling Siu Choi
Customer No.: 23505			
Title:	Mechanical Shear Based Synthesis of Alumoxane Nanoparticles		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

Date: November 17, 2005

Sir:

In accordance with 37 CFR §1.97, §1.98, applicant is providing herewith copies of the supplementary items listed on the attached U.S. Patent and Trademark Office Form PTO 1449. This information is supplemental to the Information Disclosure Statement and Form PTO 1449 filed in the above-referenced case on March 16, 2005.

The submission of this Supplemental Information Disclosure Statement and Form PTO-1449 is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and the situation warrant such an action. It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.

Respectfully submitted,

Marcella D. Watkins
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ATTORNEY/AGENT FOR APPLICANT

PTO/SB/08a 07-05)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	7

Complete if Known	
Application Number	10/636,174
Filing Date	August 7, 2003
First Named Inventor	Andrew R. Barron
Group Art Unit	1713
Examiner Name	Ling Siu Choi
Attorney Docket Number	1789-11001

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-4,496,714	01-29-1985	Murata et al.	
	AB	US-4,676,928	06-30-1987	Leach et al.	
	AC	US-4,952,634	08-28-1990	Grossman	
	AD	US-5,212,261	05-18-1993	Stierman	
	AE	US-5,593,781	01-14-1997	Nass et al.	
	AF	US-5,418,298	05-23-1995	Laine et al.	
	AG	US-4,496,714	01-29-1985	Murata et al.	
	AH	US-4,676,928	06-30-1987	Leach et al.	
	AI	US-6,369,183	04-09-2002	Cook et al.	
	AJ	US-6,322,890	11-27-2001	Barron et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where RelevantPassages or Relevant Figures Appear	T[6]
	AL	EPO 0576695	06-26-1992	Aluminum Company of America		

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	AM	ZASPALIS et al., *Synthesis and Characterization of Primary Alumina, Titania and Binary Membranes,* Journal of Materials Science 27 (1992) pp. 1023-1035	
	AN	YOLDAS, *Alumina Gels that Form Porous Transparent Al_2O_3,* Journal of Materials Science 10 (1975) pp. 1856-1860	
	AO	LOW et al., *Synthesis and Properties of Spodumene-modified Mullite Ceramics formed by Sol-gel Processing,* Journal of Materials Science Letters 16 (1997) pp. 982-984	
	AP	NIKOLIC et al., *Alumina Strengthening by Silica Sol-gel Coating,* Thin Solid Films 295 (1997) pp. 101-103	
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	AT	LANDRY et al., *From Minerals to Materials: Synthesis of Alumoxanes from the Reaction of Boehmite with Carboxylic Acids,* Journal of Mater. Chem., 1995, 5(2) pp. 331-341	
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	AV	SIRKAR, New Membrane Materials and Processes for Separation, Published by American Institute of Chemical Engineers, 1988	
	AW	KAREIVA et al., *Carboxylate-Substituted Alumoxanes as Processable Precursors to Transition Metal-Aluminum and Lanthanide-Aluminum Mixed-Metal Oxides: Atomic Scale Mixing via a New Transmetalation Reaction,* Chemistry of Materials Vol. 8, Number 9, pp. 2331-2340	

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	AX	WILSON et al., *The Porosity of Aluminum Oxide Phases Derived from Well-Crystallized Boehmite: Correlated Electron Microscope, Adsorption, and Porosimetry Studies,* Journal of Colloid and Interface Science, Vol. 82, No. 2, August 1981 (pp. 507-517)	
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	BA	ELALOUI et al., *Influence of the Sol-Gel Processing Method on the Structure and the Porous Texture of Nondoped Aluminas,* Journal of Catalysis 166, pp. 340-346 (1997)	
	BB	NOGAMI, *Sol-gel Preparation of SiO_2 Glasses Containing Al_2O_3 or ZrO_2,* Journal of Non-Crystalline Solids 178 (1994) pp. 320-326	
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	BH	ANDERSON et al., *Titania and Alumina Ceramic Membranes,* Journal of Membrane Science, 39 (1988) pp. 243-258	

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	BI	BALTUS, *Characterization of the Pore Area Distribution in Porous Membranes Using Transport Measurements,* Journal of Membrane Science, 123 (1197) pp. 165-184	
	BJ	FURNEAUX et al., *The Formation of Controlled-porosity Membranes from Anodically Oxidized Aluminum,* Nature Vol. 337, January 12, 1989 (pp. 147-149)	
	BK	KIM et al., *Hydraulic and Surface Characteristics of Membranes with Parallel Cylindrical Pores,* Journal of Membrane Science, 123 (1997) pp. 303-314	
	BL	C. LANDRY, et al; *Siloxy-Substituted Alumoxanes: Synehesis from Polydialkylsiloxanes and Trimethylaluminium, and Application as Aluminosilicate Precursors*; J. Mater. Chem. 1993; (pp. 597 – 6020)	
	BM	H. SCHMIDT AND H. KRUG, "*Sol-gel-based inorganic-organic composite materials*", ACS Symp. Se. 572, No. Inorganic and Organometallic Polymers II, 183-194, (1994)	
	BN	Y. KIMURA, S. TANIMOTO, H. YAMANE, T. KITAO, "*Coordination Structure of the Aluminium Atoms of Poly (Methylaloxane), Poly (Isopropoxylaloxane) and Poly [Acyloxy) Aloxane]*", Polyhedron, Vol. 9, no. 2/3, 371-376, (1990)	
	BO	HARRY S. KATZ, et al. *Handbook of Fillers and Reinforcements for Plastics*, Van Nostrand Reinhold Company, 1978 (49 p.)	
	BP	BRYAN ELLIS, *Chemistry and Technology of Epoxy Resins*, Blackie Academic & Professional, an Imprint of Chapman & Hall, (80 p.)	
	BQ	R. KASEMANN, H. SCHMIDT; *Coatings for Mechanical and Chemical Protection based on Organic-Inorganic Sol-Gel Nanocomposites*; New *Journal* of Chemistry, Vol. 18, No. 10-1994; (pp. 1117-1123)	
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	BT	S. PASYNKIEWICZ, *Alumoxanes: Synthesis, Structures, Complexes and Reactions*, Polyhedron, Vol. 9, No. 2/3, 1990 (25 p.)	

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Sheet 5 of 7

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	BU	K. NAKAMAE, et al; *Studies on Mechanical Properties of Polymer Comnposites by X-Ray diffraction: 3. Mechanism of Stress Transmission in Particulate Epoxy Composite by X-Ray Diffraction*; Polymer, 1992, vo.. 33, No. 13; (pp. 2720-2724)	
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	BX	J. DEWIT, et al; *Evaluation of Coatings - A Total System Approach*; Materials Science Forum, vol. 247 (1997) (pp. 69-82)	
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	BZ	K. ANDRIANO, et al; *Synthesis of New Polymers with Inorganic Chains of Molecules*; Journal of Polymer science, Vol. XXX, 1958 (pp. 513-524)	
	CA	G. WHITESIDE, et al; Articles; *Molecular Self-Assembly and Nanochemistry: A chemical Strategy for the Synthesis of Nanostructures*; Science, Vol. 254, November 1991; (pp. 1312 - 1319)	
	CB	MALCOLM P. STEVENS, *Polymer Chemistry, An Introduction*, Oxford University Press, 1990 (9 p.)	
	CC	CHRISTOPHER C. LANDRY, et al., *From Minerals to Materials: Synthesis of Alumoxanes from the Reaction of Boehmite with Carboxylic Acids*, Department of Chemistry, Harvard University, 1995 (11 p.)	
	CD	A. APBLETT, et al; *Synthesis and Characterization of Triethylsiloxy-Suybstituted Alumoxanes: Their Structural Relationship to the Minerals Boehmite and Diaspore*; American Chemical Society; 1992; (pp. 167-181)	
	CE	Y. KOIDE, et al; *$[Al_5(Bu)_5(\mu_3\text{-}O)_2((\mu\text{-}OH)_2(\mu\text{-}O_2CPh)_2]$: A Model for the Interaction of Carboxylic Acids with Boehmite*; American Chemical Society 1995; (pp. 4025-4029)	

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	CF	A. MACINNES, et al; *Chemical Vapor Deposition of Gallium Sulfide: Phase Control by Molecular Design*; American Chemical society, 1993; *(pp. 1344-1351)*	
	CG	J. M. G. COWIE, Professor of Chemistry, University of Stirling, *Polymers: Chemistry and Physics of Modern Materials*, Intertext Books, (13 p.)	
	CH	*Thermal Conductivity of Epoxy resin-Aluminium (0 to 50%)*; and *Diavalent Chromium in Alkaline Earth Silicate Systems;* CHAPMAN AND HALL Ltd.; 1977; (pp.1689 - 1691)	
	CI	H. SCHMIDT et al., *Inorganic-Organic Hybrid Coatings for Metal and Glass Surfaces,* American Chemical Society 1995 (pp. 331-347)	
	CJ	Chemical Abstracts, vol. 111, no. 24, December 11, 1989, abstract no. 218306m, UHLHORN, R.J.R.: High permselectivities of microporous silica modified gamma-alumina membranes: XP000181419	
	CK	CINIBULK, *Microstructure and Mechanical Behavior of an Hibonite Interphase in Aluminia-Based Composites,* Ceramic Eng. & Science Proceedings of the 19th Annual Conference and Exhibition on Composites, Adv. Ceramics, Materials, and Structures Part B. January 8-12, 1995, Vol. 16 No. 5	
	CL	CINIBULK et al., *Textured Magnetoplumbite Fiber-Matrix Interphase Derived from Sol-Gel Fiber Coating,* J. AM Ceram. Soc. 79 [5] 1233-1246 (1996)	
	CM	CINIBULK, *Magnetoplumbite Compounds as a Fiber Coating in Oxide/Oxide Composites,* Ceramic Eng. And Science Proc. 18th Annual Conference, Vol. 15, No. 15 September – October 1994, pp. 721-728	
	CN	BHAVE et al., Membrane Materials and Processes *Removal of Oily Contaminants in Wastewater with Microporous Alumina Membranes,* pp. 19-27 (1988)	
	CO	GUIZARD et al., Chemical Processing of Ceramics, *Ceramic Membrane Processing,* pp. 501-553, (1994)	
	CP	CINIBULK, *Thermal Stability of Some Hexaluminates at 1400°C,* Journal of Material Science Letters 14 (1995) pp. 651-654	

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	CQ	COLLONGUES et al., *Magnetoplumbite-Related Oxides,* Annual Rev. Matter. Sci. (1990) 20, pp. 51-82	
	CR	DEFRIEND et al., *A Simple Approach to Hierarchical Ceramic Ultrafiltration Membranes,* Journal of Membrane Science 212 (2003) pp. 29-38	
	CS	DEFRIEND et al., *A Flexible Route to High Strength α-alumina and Aluminate Spheres,* Journal of Materials Science 38 (2003) pp. 2673-2678	
	CT	HAY et al., *Sol-Gel Coatings on Continuous Ceramic Fibers,* Ceramic Eng. Sci. Proc. 11[9-10] pp. 1526-1538 (1990)	

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